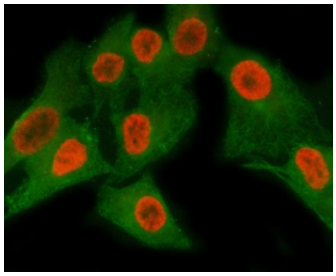
Matrin 3 Antibody / MATR3 (RQ8509)

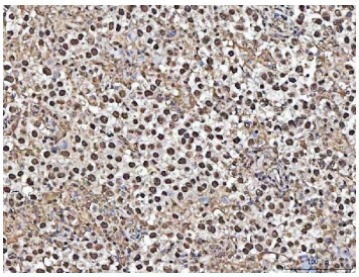
Catalog No.	Formulation	Size
RQ8509	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

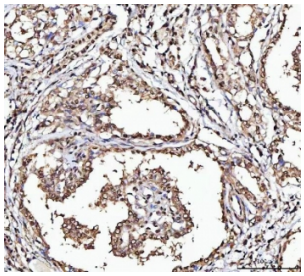
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P43243
Localization	Nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This Matrin 3 antibody is available for research use only.



Immunofluorescent staining of FFPE human A549 cells with Matrin 3 antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.

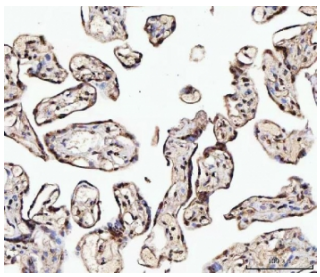


IHC staining of FFPE human testicular germ cell tumor tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

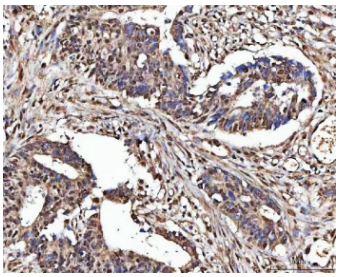


IHC staining of FFPE human thyroid cancer tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

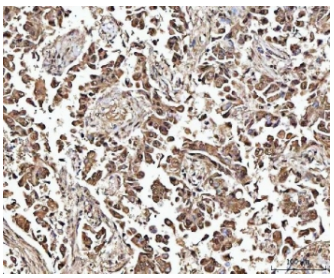
IHC staining of FFPE human tonsil tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



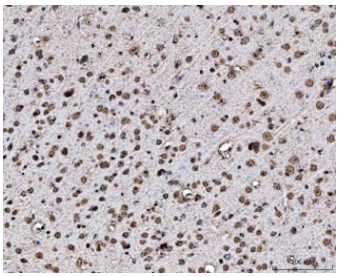
IHC staining of FFPE human placental tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



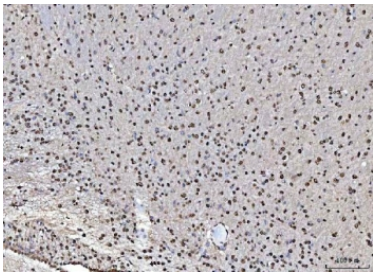
IHC staining of FFPE human rectum adenocarcinoma tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



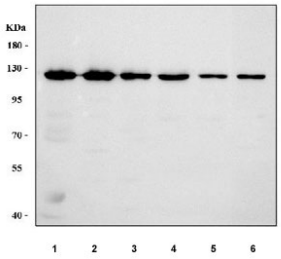
IHC staining of FFPE human breast cancer tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



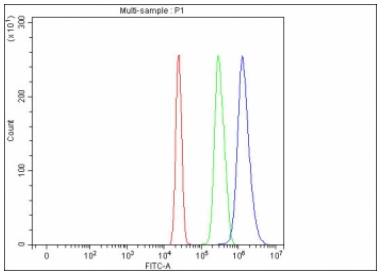
IHC staining of FFPE mouse brain tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with Matrin 3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human MCF7, 2) human SH-SY5Y, 3) human RT4, 4) human HepG2, 5) rat brain and 6) mouse brain tissue lysate with Matrin 3 antibody. Predicted molecular weight ~95 kDa, commonly observed at ~125 kDa.



Flow cytometry testing of fixed and permeabilized human HepG2 cells with Matrin 3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Matrin 3 antibody.

Description

Matrin-3 is a protein that in humans is encoded by the MATR3 gene. This gene encodes a nuclear matrix protein, which is proposed to stabilize certain messenger RNA species. Mutations of this gene are associated with distal myopathy 2, which often includes vocal cord and pharyngeal weakness. Alternatively spliced transcript variants, including read-through transcripts composed of the upstream small nucleolar RNA host gene 4 (non-protein coding) and matrin 3 gene sequence, have been identified. Pseudogenes of this gene are located on chromosomes 1 and X.

Application Notes

Optimal dilution of the Matrin 3 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids H101-Q828) was used as the immunogen for the Matrin 3 antibody.

Storage

After reconstitution, the Matrin 3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at

-20oC. Avoid repeated freezing and thawing.

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